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## **CLAIMS**

- 1. A refrigerant compressor, comprising:
- a hermetic container which internally stores oil and also accommodates a compression mechanism for compressing refrigerant gas,
- wherein the oil ranges from not lower than VG3 to not higher than VG8 in viscosity.
  - 2. The refrigerant compressor of claim 1,

wherein boiling point component at 350°C or over of the oil is not less than 10 10% and not higher than 30% in volume ratio, and boiling point component at 300°C or less is not less than 50% and not higher than 70% in volume ratio.

 The refrigerant compressor of claim 1 or claim 2, wherein the refrigerant is one of R600a and a mixture whose main component is R600a, and

the oil is one of mineral oil and synthetic oil.

- 4. The refrigerant compressor of claim 1 or claim 2, wherein phosphorous extreme-pressure additive is added to the oil.
- 5. The refrigerant compressor of claim 1 or claim 2, wherein the compression mechanism is a reciprocating compression mechanism.
- 25 6. The refrigerant compressor of claim 1 or claim 2,

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further comprising an electric motor for driving the compression mechanism, wherein a low-oligomer type insulating material is used as an insulating material for the electric motor.

- 7. The refrigerant compressor of claim 6,wherein the oil is formed of single oil nearly equal in evaporation temperature.
  - 8. The refrigerant compressor of claim 6, wherein the electric motor is a distributed-winding motor.
  - 9. The refrigerant compressor of claim 6, wherein the electric motor is a concentrated-winding motor.